

5 SEM TDC GEO M 1

M/G

2013 P. 5 — 501, 503, 505
 (November) Phy = 501, 502, 503
 G — 501

GEOLOGY Math = 501, 502, 503
 (Major) G — 501

Course : 501 Zoo = 501, 503, 505
 G — 501

(Palaeontology) Bot = 501, 503, 505
 507,

Full Marks : 48 G — 100
Pass Marks : 19

Time : 2 hours

Chc = 501, 503, 505
 501

The figures in the margin indicate full marks for the questions

1. Define fossil. What are different kinds of fossils? Write a note on modes of preservation of fossils. 1+3+6=10
2. Describe with neat sketches the shell morphology and geological distribution of any one of the following : 7+3=10
 - (a) Trilobita
 - (b) Brachiopoda
 - (c) Gastropoda

3. Write notes on any *two* of the following :

5×2=10

- (a) Application of fossils in correlation and in petroleum exploration
- (b) Theories of evolution and palaeontological data on evolution
- (c) Importance of foraminifera in stratigraphy

4. Write notes on any *two* of the following :

2½×2=5

- (a) Index fossil
- (b) Suture of Cephalopoda
- (c) Major subdivisions of plant groups

5. What is palynology? Discuss various applications of palynology.

2+6=8

6. Answer the following as directed :

1×5=5

- (a) Law of Faunal Succession was proposed by —.

(Fill in the blank)

- (b) The — succession of India is divided on the basis of *Glossopteris* and *Ptilophyllum* flora.

(Fill in the blank)

- (c) The study of trace fossils is known as
- (i) Palaeoecology
 - (ii) Synecology
 - (iii) Ichthyology
 - (iv) Ichnology

(Choose the correct one)

- (d) The Foraminiferas belong to the class
- (i) Sarcodina
 - (ii) Sporozoa
 - (iii) Flagellata
 - (iv) Mastigophora

(Choose the correct one)

- (e) The flora which comprises exclusively of floaters is described as —.

(Fill in the blank)

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